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## A RAND NOTE

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What's on the Enriched Airman Gain/Loss File

Marygail Brauner, Michael P. Murray,  
Warren E. Walker, Elizabeth Davidson

March 1989

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→ This Note describes the Enriched Airman Gain/Loss (EAGL) file, an annually prepared data file that supports the Air Force's Enlisted Force Management System. The file contains longitudinal data on every airman who was on regular active duty in the Air Force any time between June 30, 1971, and June 30, 1987. The Note describes each of the data fields on the EAGL file, identifies the data source, and lists the possible data codes and their meanings. The Air Force maintains the EAGL file and updates it annually with data on airmen who were in the Air Force during the preceding twelve months.

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## A RAND NOTE

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### What's on the Enriched Airman Gain/Loss File

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March 1989

Prepared for  
The United States Air Force

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## PREFACE

This Note provides documentation for a data file that is prepared annually to support the Air Force's Enlisted Force Management System (EFMS) by the Air Force Military Personnel Center (AFMPC). The current version of the file, named the Enriched Airman Gain/Loss file (or EAGL), contains longitudinal data on every airman who was on regular active duty in the Air Force any time between June 30, 1971, and June 30, 1987.

This is version five of the EAGL file (EAGL5). The Air Force updates it every year with data on the airmen who were in the force during the preceding 12 months. The file combines three types of data on airmen:

- Background information as of the end of Basic Military Training;
- Annual snapshots, which show changes in the background information over time;
- Information concerning reenlistments, extensions, and separations.

The file has been a valuable source of data for RAND's Enlisted Force Management Project (EFMP). The data have been used for many purposes. For example, they were used to estimate models for predicting the loss behavior of airmen, to estimate the effect of bonuses on reenlistments and on the choice of the reenlistee's term of enlistment, and to understand the behavior of airmen who cross-train upon reenlistment. Researchers who would like to study these and other aspects of airman behavior will find the EAGL file useful.

This Note describes each of the data fields on the EAGL file, identifies the data source, and lists the possible data codes and their meanings. It should prove helpful to anyone who has occasion to use the EAGL file or would like to find out what information it contains.

The RAND Corporation maintains samples from the EAGL file. The Air Force (AFMPC/DPMDWF) has the entire file.

The EFMP is a joint effort of the Air Force (through the Deputy Chief of Staff for Personnel) and The RAND Corporation. RAND's work falls within the Resource

Management Program of Project AIR FORCE. The EFMP is part of a larger body of work in that program that is concerned with the effective utilization of human resources in the Air Force.

## ACKNOWLEDGMENTS

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## ACRONYMS

AFMPC	Air Force Military Personnel Center. The Washington Area Information Management Division (AFMPC/DPMDW) is responsible for implementing the EFMS and maintaining and updating its models and data bases.
AFQT	Air Force Qualifying Test. A test that a prospective enlistee takes before he enlists. The score, which is given as a percentile ranking, is used as an indicator of the airman's "quality."
AFSC	Air Force Specialty Code. This code is used to identify specific jobs. The basic code is 5 digits. A letter prefix and/or letter suffix (called a "shred") is sometimes added to provide greater detail about the job.
AGL	Airman Gain/Loss file. A data file that includes two types of information about each airman: (1) Background information collected before, during, or shortly after Basic Military Training; and (2) information on the airman at the time of every reenlistment, extension, and loss transaction.
ARL	<i>Airman Reenlistment/Loss file.</i> A data file that includes information on airmen at the time of every reenlistment, extension, and loss transaction.
DMDC	Defense Manpower Data Center. An agency of the Department of Defense that maintains data bases related to manpower and personnel in the United States armed forces.
DoD	Department of Defense.
EAGL	Enriched Airman Gain/Loss file. A data file that contains longitudinal data on airmen on regular active duty in the Air Force. Version 5 of the EAGL file contains data on airmen who were in the Air Force any time between June 30, 1971, and June 30, 1987.
EFMS	Enlisted Force Management System.
ETS	End of term of service. The date on which an airman fulfills his obligated active duty.
FIDO	File Item Data Overview file. A data file that contains the standard meanings of most of the codes used on Air Force data files, including the dates during which the codes were valid.
HRL	(Air Force) Human Resources Laboratory. An agency within Air Force Systems Command that maintains the PACE, AGL, ARL, and FIDO files.

**PACE**     Processing and Classification of Enlistees file. A data file that contains background information on airmen collected before, during, or shortly after Basic Military Training.

**TAFMS**   Total Active Federal Military Service. This is the number of months of active military service accumulated by the airman up to the reference date.

**USAF**     United States Air Force.

## I. WHAT IS THE EAGL FILE?

The Enriched Airman Gain/Loss file is a longitudinal file containing information about individual airmen. Version 5 (EAGL5) contains data about each enlisted person who was on regular active duty in the Air Force any time between June 30, 1971, and June 30, 1987.

The EAGL5 file combines data from the Airman Reenlistment/Loss (ARL) file and Airman Gain/Loss (AGL) file, both of which are maintained by the Air Force Human Resources Laboratory (AFHRL), with data from the Active Duty Master files maintained by the Defense Manpower Data Center (DMDC). Some of the data on the ARL and AGL files were recoded either to insure a consistent definition over time (e.g., Academic Education) or to provide a preferred grouping (e.g., AFQT Category.)

The AGL file provides two types of information about each airman: (1) background information on the airman collected before, during, or shortly after Basic Military Training, drawn from the Processing and Classification of Enlistees (PACE) file; and (2) information on the airman at the time of every reenlistment, extension, and loss transaction during his career. The AGL file does not include any airmen who enlisted before January 1, 1956, the inception date of the PACE file. The ARL file was used to obtain Type 2 information for airmen who enlisted before that date.

The DMDC Master files provide annual "snapshots" of each airman in the Air Force on every June 30 (from 1971 through 1986), detailing the individual's personal traits and military circumstances on that date each year.

For each airman, the EAGL5 file combines a subset of his PACE information with a series of annual segments, one for each year that the airman was in the force during the sample period.<sup>1</sup> (Thus, the record for each airman is of variable length.) Each annual segment has two parts:

- *Snapshot from the DMDC Active Duty Master files.* A subset of the information on the airman contained in the June DMDC Master file for that year. The last snapshot is at June 30, 1986.

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<sup>1</sup>If the airman enlisted before January 1, 1956, the PACE portion of his record is blank.

- *Transactions from the AGL or ARL file.* A subset of the data on the airman's enlistment, extension, and separation transactions (if any) during the following year (July 1 to June 30).<sup>2</sup> Data on up to three transactions are included.<sup>3</sup> Transactions run through June 30, 1987.

An airman's record also includes several constructed variables that summarize the airman's longitudinal history. For example, the total number of transactions in the airman's record is included, as are indicators of which years the airman appeared in the DMDC Master files and in which annual segments there are transactions recorded.

If an airman in the EAGL file has reenlistment, extension, or loss transactions before his first appearance in the DMDC Master files, then a subset of the data about the last transaction before his first snapshot<sup>4</sup> is included in the file.

Users are cautioned to note that annual segments are identified by the *calendar* year of the DMDC snapshot they contain. Consequently, the *transactions* recorded in, say, a 1976 annual segment all occurred during the period of July 1, 1976, to June 30, 1977.

Physically, the EAGL file contains a single variable-length record for each airman. The length of each record is determined by the number of annual segments recorded for the individual.

Table 1 presents the structure of an airman's record. Table 2 contains a dictionary of the variables in the EAGL5 file. The dictionary gives each variable's name, location in the record, and brief description. It also shows the page of this Note on which the variable's codes can be found. In naming the variables, we used the following conventions:

- Variables from the PACE file and constructed variables usually begin with "I" (for initial) or "C" (for constructed) but may begin with any letter except S, E, or T; these are called *person-level variables*.

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<sup>2</sup>If the DMDC snapshot for the annual segment were for June 30, 1977, the transactions in the segment would be those between July 1, 1977, and June 30, 1978.

<sup>3</sup>In the small percentage of instances in which an airman had more than three transactions during the 12 months following the DMDC snapshot, the number was winnowed to three. See footnote 1, p. 14.

<sup>4</sup>This is called the "early" transaction.

Table 1

STRUCTURE OF AN AIRMAN'S EAGL RECORD

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1.	PACE information (Cols. 1-50)
2.	Constructed variables (Cols. 51-96)
3.	Early-transaction data (Cols. 97-126)
4.	First Annual Segment
	( i) DMDC Active Duty Master file data (Cols. 127-192)
	(ii) Data on three transactions (blank for transactions that did not occur) (Cols. 193-279)
5.	Additional annual segments (as many as are needed)

---

- Variables that pertain to early transactions all begin with "E"; these are called *early-transaction variables*.
- Variables from the DMDC Master files all begin with "S"; these are called *year-level (or snapshot) variables*.
- Variables from an annual segment that pertain to transactions all begin with "T"; these are called *transaction-level variables*.

In Table 2, the column numbers given for person-level and early-transaction variables indicate their location on the EAGL5 record. The column numbers given for year-level variables indicate their location within an annual segment. The column numbers given for transaction-level variables indicate their position within one transaction's portion of an annual segment. Thus, person-level and early-transaction variables occupy the first 126 columns of an airman's EAGL5 record, year-level variables occupy the first 66 columns of each annual segment, and the last 87 columns of each annual segment contain the variables for three transactions.

The following sections describe each of the variables and the meanings of each of their codes. In cases where the number of codes is voluminous or their meaning is For Official Use Only, we direct the reader to the appropriate source of information (which will often be the Air Force's File Item Data Overview—FIDO—file). Section II describes the PACE data; Sec. III describes the constructed variables; Sec. IV describes

Table 2

VARIABLES IN AN AIRMAN'S EAGL5 RECORD

Type	Variable	Page	Columns in Record		Format	Description
			First	Last		
PACE	ID	08	1	9	CHAR	Airman Identification Number
	IEDUC	08	10	10	NUM	Education
	AFQTGP	08	11	11	NUM	AFQT Category (I, II, III, IV)
	RACE	09	12	12	NUM	Race
	ISEX	09	13	13	NUM	Sex
	PAYDT	09	14	18	NUM	Pay date
	ITAFMS	10	19	23	NUM	Date entered military service
	DOE	10	24	28	NUM	Date of enlistment
	DOB	10	29	32	NUM	Date of birth
	IMARRY	11	33	33	NUM	Marital status
	IDEPEN	11	34	34	NUM	Number of dependents
	ITOE	11	35	35	NUM	Term of first enlistment
	AFQTA	11	36	36	NUM	AFQT Category (I, II, IIIA, IIIB, IV)
	P100M	12	37	37	NUM	P100M Accession Category
	IAFSPR	12	38	38	NUM	Primary AFSC: Prefix
	IAFSCF	12	39	44	CHAR	Primary AFSC: #/Suffix
	ITTAFS	12	45	50	CHAR	Technical Training AFSC: #/Suffix
Constructed	CYRS	13	51	52	NUM	Years present in the DMDC Files
	CNTRAN	13	53	54	NUM	Number of transactions in the EAGL File
	CNRENL	13	55	55	NUM	Number of reenlistments in the EAGL File
	CSEPDY	13	56	59	NUM	Date of final separation
	CFLG71	14	60	61	NUM	Flag indicating presence in 1971
	CFLG72	14	62	63	NUM	Flag indicating presence in 1972
	CFLG73	15	64	65	NUM	Flag indicating presence in 1973
	CFLG74	15	66	67	NUM	Flag indicating presence in 1974
	CFLG75	15	68	69	NUM	Flag indicating presence in 1975
	CFLG76	15	70	71	NUM	Flag indicating presence in 1976
	CFLG77	15	72	73	NUM	Flag indicating presence in 1977
	CFLG78	15	74	75	NUM	Flag indicating presence in 1978



Table 2—continued

Type	Variable	Page	Columns in Record		Format	Description
			First	Last		
Early Transaction	CFLG79	15	76	77	NUM	Flag indicating presence in 1979
	CFLG80	15	78	79	NUM	Flag indicating presence in 1980
	CFLG81	15	80	81	NUM	Flag indicating presence in 1981
	CFLG82	16	82	83	NUM	Flag indicating presence in 1982
	CFLG83	16	84	85	NUM	Flag indicating presence in 1983
	CFLG84	16	86	87	NUM	Flag indicating presence in 1984
	CFLG85	16	88	89	NUM	Flag indicating presence in 1985
	CFLG86	16	90	91	NUM	Flag indicating presence in 1986
	CYRBEG	16	92	93	NUM	First year in DMDC file
	CYREND	17	94	95	NUM	Last year in DMDC file
	CINTSV	17	96	96	NUM	Flag for interrupted service
	ECTRAN	18	97	97	NUM	Type of early transaction
	EEDCSA	19	98	101	NUM	Effective date of change for strength accountability
	ETRNID	19	102	104	CHAR	Transaction ID code
	EGRADE	19	105	106	NUM	Grade
	EDOS	20	107	110	NUM	Date of separation
	ECHAR	20	111	111	NUM	Character of discharge
	EELIG	20	112	113	CHAR	Reenlistment eligibility
	EECAT	21	114	114	NUM	Category of enlistment
	ETOE	22	115	115	NUM	Term of enlistment
	ECAREA	23	116	116	NUM	Major Command area
	ECAFSC	23	117	122	CHAR	Control AFSC: #/Suffix
	EHRL	23	123	126	NUM	HRL emitted-as-of date
			Columns in Annual Segment			
			First	Last		
Snapshot	SYEAR	24	1	2	NUM	Year of this DMDC record
	STAFMS	24	3	5	NUM	Total active federal military service
	SPOCGP	24	6	8	NUM	DOD primary occupation group

Table 2—continued

Type	Variable	Page	Columns in Annual Segment		Format	Description
			First	Last		
	SDOCGR	29	9	11	NUM	DOD duty occupation group
	SEDUC	29	12	13	NUM	Education
	SGRADE	30	14	14	NUM	Pay grade
	SHOME	30	15	17	NUM	Home of record
	SVIETN	35	18	18	NUM	Vietnam duty code
	SMARR	36	19	19	NUM	Marital status
	SDEPN	36	20	20	NUM	Number of dependents
	SPAFSC	36	21	27	CHAR	Primary AFSC: Prefix/#/Suffix
	SETSYR	36	28	29	NUM	ETS year
	SETSMO	36	30	31	NUM	ETS month
	SDOSYR	37	32	33	NUM	DOS year
	SDOSMO	37	34	35	NUM	DOS month
	SDOLEY	37	36	37	NUM	Date of last enlistment: Year
	SDOLEM	37	38	39	NUM	Date of last enlistment: Month
	STIG	37	40	42	NUM	Time in grade
	SBMULT	37	43	43	NUM	Bonus multiple <sup>a</sup>
	SPROPY	38	44	44	NUM	Proficiency pay level
	SUIC	38	45	50	CHAR	Unit identifier code
	SPASNR	38	46	49	CHAR	PAS number
	SSPAN	38	51	51	NUM	Spanish surname
	SDAFSC	39	52	58	CHAR	Duty AFSC: Prefix/#/Suffix
	SAFQTP	39	59	60	NUM	AFQT percentile
	SCTRN1	39	61	62	NUM	Type of first transaction
	SCTRN2	40	63	64	NUM	Type of second transaction
	SCTRN3	40	65	66	NUM	Type of third transaction
			Columns in Transaction Block			
			First	Last		
Transaction	TEDCSA	41	1	4	NUM	Effective date of change for strength accountability
	TTRNID	41	5	7	CHAR	Transaction ID code

Table 2—continued

Type	Variable	Page	Columns in Transaction Block		Format	Description
			First	Last		
	TGRADE	42	8	9	NUM	Grade
	TDOS	42	10	13	NUM	Date of separation
	TCHAR	42	14	14	NUM	Character of discharge
	TELG	42	15	16	CHAR	Reenlistment eligibility
	TECAT	42	17	17	NUM	Category of enlistment
	TTOE	42	18	18	NUM	Term of enlistment
	TCAREA	43	19	19	NUM	Major command area
	TCAFSC	43	20	25	CHAR	Control AFSC: #/Suffix
	THRL	43	26	29	NUM	HRL emitted-as-of date

<sup>a</sup>The DMDC data on bonuses and proficiency pay are not very dependable. The EFMP is using separate data sources to associate airmen with the bonuses and proficiency pay they received.

the early-transaction variables; Sec. V describes the year-level variables; and Sec. VI describes the transaction-level variables.

The format used to document each variable is the same. The heading for the variable includes a descriptive name for the variable, its name in the dictionary (in parentheses), and the columns it occupies. (In the case of year-level variables, the columns they occupy in an annual segment are shown; for transaction-level variables, the columns they occupy in each transaction block are shown.) Underneath the heading (in parentheses) we show the source of the data for this variable. This is followed by a brief description of the variable (if its meaning is not clear from its name) and the list of codes and their meanings. If the meanings of the codes changed during the period 1971–1987, the applicable dates are shown. If the codes for a variable start on one page and are continued on following pages, the name of the variable is shown in the upper right or upper left corner of the following pages.

## II. PACE DATA

The data in Cols. 10-50 of an airman's record come from the Processing and Classification of Enlistees (PACE) file, which did not exist before January 1, 1956. These columns are blank for airmen who enlisted before that date.

### *COLUMNS 1-9—AIRMAN ID (ID)*

A number that uniquely identifies each airman in the EAGL file. AFMPC has sent us a separate file that links the AIRMAN ID with the airman's Social Security number.

### *COLUMN 10—EDUCATION (IEDUC)*

(Recoded from Academic Education Level on AGL file)

Code:

- 1 = No certificate, diploma, or General Equivalency Degree (G.E.D.)
- 2 = G.E.D.
- 3 = Certificate of equivalency
- 4 = High school diploma
- 5 = Some college training
- 6 = Baccalaureate degree or more
- 9 = Blank or unknown on AGL
- blank = Airman enlisted before 1/1/56

### *COLUMN 11—AFQT GROUP (AFQTGP)*

(Recoded from X=AFQT Percentile on AGL file)

Code:

- 1 = AFQT Group I ( $93 \leq X \leq 99$ )
- 2 = AFQT Group II ( $65 \leq X \leq 92$ )
- 3 = AFQT Group III ( $31 \leq X \leq 64$ )
- 4 = AFQT IV, V, VI, VII ( $01 \leq X \leq 30$ )
- 9 = Blank or unknown on AGL
- blank = Airman enlisted before 1/1/56

*COLUMN 12—RACE (RACE)*

(Recoded from Race of Service Member on AGL file)

Code:

1 = Caucasian

2 = Black

3 = Other

4 = Blank or unknown on AGL

blank = Airman enlisted before 1/1/56

*COLUMN 13—SEX (ISEX)*

(Recoded from Sex of Service Member on AGL file)

Code:

Code:

1 = Female

2 = Male

3 = Blank or unknown on AGL

blank = Airman enlisted before 1/1/56

*COLUMNS 14-18—PAY DATE (PAYDT)*

(Calculated from Date of Pay/Total Military Service Date (YR-MO) on AGL file)

The date of pay is the date on which the airman was added to the Air Force payroll. It may differ from the date of enlistment (e.g., for persons in the Delayed Enlistment Program and Date of TAFMS (see columns 19-23). PAYDT is a real (as opposed to integer) number, with two digits before an implied decimal point and three digits after. (If the date of pay is January 1972, PAYDT=72000; if the date of pay is December 1972, PAYDT=72917.) Date of pay was not included on the AGL file until January 1, 1966.

Code:

Let  $X_1$  = Date of Pay--YR on AGL

$X_2$  = Date of Pay--MO on AGL

Then  $PAYDT = X_1 + ((X_2 - 1) / 12)$

NOTE: PAYDT=99999 if  $X_1$  is blank or nonnumeric;  
PAYDT=99999 if  $X_2$  is blank, nonnumeric, 00, or >12;  
PAYDT=bbbbbb if airman enlisted before 1/1/56<sup>1</sup>

**COLUMNS 19-23—DATE OF TOTAL ACTIVE FEDERAL MILITARY SERVICE (ITAFMS)**  
(Calculated from Date of Total Active Federal Military Service (YR-MO-DAY) on AGL file)

The date of total active federal military service is the date the airman entered the military service of the United States (not necessarily the Air Force). ITAFMS is a real (as opposed to integer) number, with two digits before an implied decimal point and three digits after. (If the date of TAFMS is January 1, 1972, ITAFMS=72000, if it is December 15, 1972, ITAFMS=72955.) The date of total active federal military service was not included on the AGL file until January 1, 1966.

**Code:**

Let  $X_1$  = Date of TAFMS--YR on AGL  
 $X_2$  = Date of TAFMS--MO on AGL  
 $X_3$  = Date of TAFMS--DAY on AGL  
Then ITAFMS =  $X_1 + ((X_2 - 1)/12) + ((X_3 - 1)/365)$

NOTE: ITAFMS=99999 if  $X_1$  is blank or nonnumeric;  
ITAFMS=99999 if  $X_2$  is blank, nonnumeric, 00, or >12;  
ITAFMS=99999 if  $X_3$  is blank, nonnumeric, 00, or >31;  
ITAFMS=bbbbbb if airman enlisted before 1/1/56

**COLUMNS 24-28—DATE OF ENLISTMENT (DOE)**  
(Calculated from Date of Enlistment (YR-MO-DAY) on AGL file)

The date of enlistment has been included on the AGL file since its inception in 1956.

**Code:** DOE is calculated in the same way as is ITAFMS  
(see Columns 19-23)

NOTE: DOE=99999 if  $X_1$  is blank or nonnumeric;  
DOE=99999 if  $X_2$  is blank, nonnumeric, 00, or >12;

---

<sup>1</sup>b signifies a blank.

DOE=99999 if X<sub>3</sub> is blank, nonnumeric, 00, or >31;

DOE=bbbbbb if airman enlisted before 1/1/56

***COLUMNS 29-32—DATE OF BIRTH (DOB)***

(Same as Date of Birth (YR-MO) on AGL file)

**Code:**

Cols. 29-30: YR on AGL

Cols. 31-32: MO on AGL

NOTE: DOB is 0000 if YR is blank, nonnumeric, or 00,  
or if MO is blank, nonnumeric, 00, or >12; DOB is  
blank if airman enlisted before 1/1/56

***COLUMN 33—MARITAL STATUS (IMARRY)***

(Recoded from Marital Status on AGL file)

**Code:**

1 = Single, never married

2 = Married (including common law)

3 = Divorced, interlocutory decree, separated or  
annulled

0 = Other status, blank on AGL, or unknown

blank = Airman enlisted before 1/1/56

***COLUMN 34—NUMBER OF DEPENDENTS (IDEPEN)***

(Recoded from Number of Dependents on AGL file)

**Code:**

1 = Zero dependents

2 = One dependent

3 = Two dependents

4 = 3-10 dependents

0 = Unknown, blank on AGL, or >10 dependents

blank = Airman enlisted before 1/1/56

***COLUMN 35—TERM OF INITIAL ENLISTMENT (ITOE)***

(Recoded from Term of Enlistment on AGL file)

The number of years for which an individual voluntarily enters into a USAF component.

Code:

0 = Unknown or blank on AGL

1 = Two-year enlistment

2 = Four-year enlistment

3 = Six-year enlistment

blank = Airman enlisted before 1/1/56

*COLUMN 36—AFQT GROUP, CATEGORY A (AFQTA)*

(Recoded from X=AFQT Percentile on AGL file)

Code:

1 = AFQT Group I (93≤X≤99)

2 = AFQT Group II (65≤X≤92)

3 = AFQT Group IIIA (50≤X≤64)

4 = AFQT Group IIIB (31≤X≤69)

5 = AFQT Group IV, V, VI, VII (01≤X≤30)

9 = Blank or unknown on AGL

blank = Airman enlisted before 1/1/56

*COLUMN 37—P100M ACCESSION CATEGORY (P100M)*

(From Project 100,000 ID file)

Project 100,000 was an experiment conducted from October 1966 to June 1972 under which physical and mental standards were waived for some enlistees. (Some persons were allowed to enlist whose physical or mental conditions were below previously established standards for accessions.)

Code:

0 = Nonparticipant

1 = P100M mental standard participant

2 = P100M medical remedial participant

3 = P100M control group participant

9 = Blank or unknown on AGL

blank = Airman enlisted before 1/1/56



*COLUMNS 38-44—PRIMARY AFSC (IAFSPR and IAFSCF)*

(Taken directly from AGL file)

The AFSC that the airman was awarded at the completion of Basic Military Training. This field is blank if the airman enlisted prior to 1/1/56.

Codes: Col. 38: Prefix—See Air Force's FIDO File, code AI-705 (blank if no prefix)

Cols. 39-44: Number and Suffix—See Air Force's FIDO File, code  
AFSC-AMN-DC (00000 if unknown)

*COLUMNS 45-50—TECHNICAL TRAINING AFSC (ITTAFS)*

(From Technical Training Master file)

Identifies training that the airman received after his Basic Military Training. A small percentage of airmen have a technical training specialty associated with them on the EAGL file. Most are assigned a Technical Training AFSC of 99999 ("Total Airman"), with or without a suffix. This field is blank for airmen who enlisted before 1/1/56.

Codes: See Air Force's FIDO File, code AFSC-AMN-DC

### III. CONSTRUCTED VARIABLES DESCRIBING SNAPSHOTS AND TRANSACTIONS

#### *COLUMNS 51-52—YEARS PRESENT IN DMDC FILES (CYRS)*

The number of years the airman appears in the DMDC Master files used to construct this EAGL file.

#### *COLUMNS 53-54—NUMBER OF TRANSACTIONS (CNTRAN)*

The total number of (nonblank) transactions in the airman's EAGL record.

NOTE: Most of the transactions in the airman's record will be blank, since space is allocated for three transactions in each annual segment.

#### *COLUMN 55—NUMBER OF REENLISTMENTS (CNREN1)*

The number of reenlistment transactions in the airman's EAGL record.

#### *COLUMNS 56-59—DATE OF FINAL SEPARATION (CSEPDT)*

The date of the airman's last loss transaction.

Code:

Col. 56-57: YR

Col. 58-59: MO

NOTE: CSEPDT is 0000 if no loss transaction has been recorded.

#### *COLUMNS 60-61—FLAG FOR 1971 (CFLG71)*

Indicates whether the airman appeared in the 1971 DMDC Active Duty Master file, how many transactions are recorded for the airman in the 1971 annual segment (if there is one), and whether the transaction data for the airman are incomplete.<sup>1</sup>

<sup>1</sup>If the number of transactions (n) for the airman in the AGL file in the 12-month period following the DMDC snapshot is greater than 3, some of those transactions will not appear in the annual segment. The rules for selecting the three transactions for the annual segment are:

- Include the most recent reenlistment and discard all others.
- Include the most recent loss and discard all others.

Code:

Col. 60: 0 = airman not in DMDC Master file in 1971  
1 = airman in DMDC Master file in 1971

Col. 61: 0 = no transactions recorded in 1971  
annual segment, or no 1971 annual  
segment exists  
1 = one transaction recorded in 1971  
annual segment  
2 = two transactions recorded in 1971  
annual segment  
3 = three transactions recorded in 1971  
annual segment and no more than  
three were contained in the AGL or ARL  
file for this period  
4 = three transactions recorded in 1971  
annual segment but more than three  
for this period were contained in the  
AGL or ARL file

*COLUMNS 62-63—FLAG FOR 1972 (CFLG72)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1972 DMDC Master file and 1972 annual segment.

*COLUMNS 64-65—FLAG FOR 1973 (CFLG73)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1973 DMDC Master file and 1973 annual segment.

- 
- Include the most recent reenlistment and discard all others.
  - Include the most recent loss and discard all others.
  - Add extension transactions:
    - If there is one more transaction to be selected, pick the most recent extension.
    - If there are two more transactions to be selected, pick the first and last extensions of the period.
    - If there are three transactions to be selected, pick the first and the last two extensions of the period.

*COLUMNS 66-67—FLAG FOR 1974 (CFLG74)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1974 DMDC Master file and 1974 annual segment.

*COLUMNS 68-69—FLAG FOR 1975 (CFLG75)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1975 DMDC Master file and 1975 annual segment.

*COLUMNS 70-71—FLAG FOR 1976 (CFLG76)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1976 DMDC Master file and 1976 annual segment.

*COLUMNS 72-73—FLAG FOR 1977 (CFLG77)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1977 DMDC Master file and 1977 annual segment.

*COLUMNS 74-75—FLAG FOR 1978 (CFLG78)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1978 DMDC Master file and 1978 annual segment.

*COLUMNS 76-77—FLAG FOR 1979 (CFLG79)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1979 DMDC Master file and 1979 annual segment.

*COLUMNS 78-79—FLAG FOR 1980 (CFLG80)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1980 DMDC Master file and 1980 annual segment.

*COLUMNS 80-81—FLAG FOR 1981 (CFLG81)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1981 DMDC Master file and 1981 annual segment.

*COLUMNS 82-83—FLAG FOR 1982 (CFLG82)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1982 DMDC Master file and 1982 annual segments.

Same as for CFLG71 (see Cols. 60-61), but refers to 1983 DMDC Master file and 1983 annual segments.

*COLUMNS 86-87—FLAG FOR 1984 (CFLG84)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1984 DMDC Master file and 1984 annual segments.

*COLUMNS 88-89—FLAG FOR 1985 (CFLG85)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1985 DMDC Master file and 1985 annual segments.

*COLUMNS 90-91—FLAG FOR 1986 (CFLG86)*

Same as for CFLG71 (see Cols. 60-61), but refers to 1986 DMDC Master file and 1986 annual segments.

*COLUMNS 92-93—FIRST YEAR IN DMDC FILES (CYRBEG)*

Indicates the first year an airman appeared in the June DMDC Master files of 1971-1986. This year might not coincide with the first year for which there is an annual segment for the airman. Annual segments were created for each year after 1970 in which the airman had transactions, even if there was no DMDC snapshot for the airman in that year. Since this procedure applied to early transactions as well as to later transactions, it is possible for an annual segment recording a transaction to be present before the airman's first appearance in the DMDC Master files (and for the early transaction to appear again in the transaction block of the airman's first annual segment).

Code:

ab = the airman first appears in the DMDC Master  
files in 19ab

NOTE: CYRBEG = 00 means that the airman never appears in the  
DMDC Master files.

*COLUMNS 94-95—LAST YEAR IN DMDC FILES (CYREND)*

Indicates the last year an airman appears in the June DMDC Master files of 1971-1986. This might not coincide with the last year for which there is an annual segment. Annual segments were created for each year after 1970 in which the airman had transactions, even if there was no DMDC snapshot for the airman in the year.

Code:

ab = the airman last appears in the DMDC  
Master files in 19ab

NOTE: CYREND = 00 means that the airman never appears in the  
DMDC Master files

*COLUMN 96—FLAG FOR INTERRUPTED SERVICE (CINTSV)*

Indicates that for some year between the airman's first and last annual segments there is no annual segment. The variable has *not* been cross-checked with the airman's transaction history to verify that such an occurrence is actually due to interrupted service.

Code:

0 = there is no interruption in the airman's annual  
segments  
1 = there is an interruption in the airman's annual  
segments

#### IV. EARLY TRANSACTION

Some airmen have transactions recorded in the AGL or ARL file before their first appearance in the DMDC Master files. The early-transaction data pertain to the most recent of these transactions—to the airman's last transaction before his first appearance in the DMDC files. An airman's early-transaction variables are left blank if there is no early transaction for that airman.

Most early transactions are recorded for airmen who were in the service before the first DMDC snapshots in the EAGL file—June 30, 1971. Nearly all other early transactions are recorded for airmen who left the service so soon after enlisting that they never appeared in the DMDC Master files. For those airmen, the early transaction is their last transaction.

The information recorded for the early transaction is practically the same as that recorded for the transactions in the annual segments (see Sec. VI).<sup>1</sup> The names of the variables differ in their first letters. The names of all early transaction variables begin with an E.

*COLUMN 97—TYPE OF EARLY TRANSACTION (ECTR<sub>N</sub>)* (Recoded from Transaction ID Number on AGL or ARL file)

There are several hundred codes (called Separation Program Designator or SPD codes) that are used for classifying airman transactions. This field assigns transactions to one of three categories.

Code:

- 0 = no early transaction
- 1 = reenlistment
- 2 = extension
- 3 = loss
- 9 = other

---

<sup>1</sup>Only the coding for the type of transaction is different.

*COLUMNS 98-101—EFFECTIVE DATE OF CHANGE FOR STRENGTH ACCOUNTABILITY (EEDCSA)*

(Unrecoded from EDCSA on AGL or ARL file)

This field specifies the date on which the change specified by the transaction affect the composition of the force (e.g., for end-strength management).

Code:

Cols. 98- 99: YR

Cols. 100-101: MO

*COLUMNS 102-104—TRANSACTION ID (ETRNID)*

(Unrecoded from AGL or ARL file)

This variable identifies the general category of the transaction (gain, loss, reenlistment, or extension) and the specific type of transaction within each category (e.g., there are over 200 SPD codes that describe why an airman was involuntarily discharged).

Many of the codes are For Official Use Only. Therefore, the codes are not listed here. For those who need access to them, they are available in the Air Force's FIDO file, Code TRA-ID-AMN.

*COLUMNS 105-106—GRADE (EGRADE) (Unrecoded from AGL or ARL file)*

Code:<sup>2</sup>

b1 and 31 = Airman Basic (E-1)

b2 and 32 = Airman (E-2)

b3 and 33 = Airman First Class (E-3)

b4 and 34 = Sergeant (E-4)

b5 and 35 = Staff Sergeant (E-5)

b6 and 36 = Technical Sergeant (E-6)

b7 and 37 = Master Sergeant (E-7)

b8 and 38 = Senior Master Sergeant (E-8)

b9 and 39 = Chief Master Sergeant (E-9)

65 = Airman, Grade Unknown

99 = Unknown

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<sup>2</sup>bn means a blank in Col. 103 and the number "n" in Col. 104.



NOTE:

Codes 01-10 and 64 are officer codes  
Codes 21-24 are warrant officer codes  
Codes 51-53 are cadet codes  
Codes 61-63 and 66-71 are students, patients,  
prisoners, and transients  
Code 88 is a civilian.

*COLUMNS 107-110—DATE OF SEPARATION (EDOS)*

(Unrecoded from AGL or ARL file)

Individual's date of separation. 9999 if unknown.

Code:

Cols. 107-108: YR  
Cols. 109-110: MO

*COLUMN 111—CHARACTER OF DISCHARGE (ECHAR)*

(Unrecoded from AGL or ARL file)

This variable describes the manner in which the individual conducted himself during his period of military service. It corresponds to the information shown on the Discharge Certificate issued when the individual separated from the Air Force.

Code:

blank = Not applicable (1/1/73- )  
0 = No change or not applicable (1/11/67-12/31/72)  
No entry (1/1/73- )  
1 = Honorable (7/1/69- )  
2 = General (6/1/65-12/31/72)  
= Under honorable conditions (1/1/73- )  
3 = Under conditions other than honorable (6/1/65- )  
4 = Undesirable (6/1/65-12/31/72)  
= Under other than honorable conditions (1/1/73- )  
5 = Bad conduct (6/1/65-12/31/72)  
Under other than honorable conditions (1/1/73- )  
6 = Dishonorable (6/1/65- )

7 = Applies only to officers (7/1/73- )

8 = Undetermined (deferred by special directive) (7/1/69- )

9 = Unknown

*COLUMNS 112-113—REENLISTMENT ELIGIBILITY (EELIG)*

(Unrecoded from AGL or ARL file)

This variable identifies the reenlistment status of the individual and the reason for that status.

Many of the codes refer to sensitive information about the individual. Therefore, the codes are not listed here. For those who need access to them, they are available in listings of the FIDO file.

Generally (but not always), the following coding conventions have been used:

blank:	Not assigned or not applicable
Col. 112 = 1:	Individual eligible to reenlist
Col. 112 = 2,3,4:	Individual not eligible to reenlist
Col. 112 = 9:	Unknown

*COLUMN 114—CATEGORY OF ENLISTMENT (EECAT)*

(Unrecoded from AGL or ARL file)

Code:

1 = FIRST TERM AIRMAN: An individual who is serving on his:

- initial term of enlistment, or
- first tour of extended active duty,<sup>3</sup> or
- first enlistment in the USAF with previous active federal military service totaling <24 months (3/1/76- )

= FIRST TERM AIRMAN: An individual who is serving on his:

- initial term of enlistment, or

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<sup>3</sup>Extension of initial enlistment is for <24 months.

- first tour of extended active duty with no previous extended active service<sup>4</sup> (1/1/72-3/1/76)

2 = SECOND TERM AIRMAN: An individual who:

- is serving on his second term of enlistment and/or
- is serving an extended active duty tour,<sup>4</sup> or enlists into regular AF subsequent to previous service on extended active duty totaling ≥24 months (3/1/76- )

= SECOND TERM AIRMAN: An individual who:

- is serving on his second term of enlistment, and/or
- is serving on an extended active duty tour,<sup>5</sup> or
- is serving on a first enlistment and has more than six months previous active military service, or
- is an inductee who enlisted from inducted status during or at the completion of his two-year term of involuntary service, or
- has one term of service with some other military department, or
- is a former nonregular airman (AFR or ANG) who enlisted during or subsequent to previous service on extended active duty (8/1/72-3/1/76)

4 = CAREER AIRMAN: An individual who is serving on his:

- third or subsequent term of enlistment, other than ADT in any component of military service, or
- second term of enlistment who has extended his enlistment for two or more years (12/1/77- )

= CAREER AIRMAN: An individual who is serving on his:

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<sup>4</sup>Extension of initial enlistment is for ≥24 months (may result from several short extensions).

<sup>5</sup>Extension of initial enlistment is for ≥24 months (may result from several short extensions).

- third or subsequent term of enlistment, and/or
- second term of enlistment with an extended active duty tour (8/1/72-12/1/77)

= CAREER AIRMAN: An individual who:

- is serving on his second or subsequent term of enlistment, and/or
- is serving on an extended active duty tour,<sup>5</sup>
- has one or more terms of service with other military departments, or
- is a former nonregular airman (AFR or ANG) who enlisted during or subsequent to active service on extended active duty, or
- is an inductee who enlisted from inducted status during or at the completion of his two-year term of involuntary service (1/1/72-8/1/72)

5 = E-9 or E-9 selectee with HYT waived (5/1/78- )

blank or 9 = Unknown (1/1/72- )

*COLUMN 115—TERM OF ENLISTMENT (ETOE)*

(Unrecorded from AGL or ARL file)

The number of years for which an individual voluntarily enters into a USAF component.

Code:

- 0 = None (applicable to regular Air Force individuals who have completed their term of enlistment and are being transferred to the Air Force Reserves to complete their military service obligation) (3/1/79- )
- 1 = One-year term of enlistment (applicable to Air Reserve Forces only) (3/1/66- )
- 2 = Two-year specified term of enlistment—applicable to aviation cadets with letter of selection and class

assignment notification, or ROTC graduates receiving certificates in lieu of a commission, and Air Reserve Forces (3/1/66- )

- 3 = Three-year term of enlistment (10/1/64- )
- 4 = Four-year term of enlistment (10/1/64- )
- 5 = Five-year term of enlistment (10/1/64- )
- 6 = Six-year term of enlistment (10/1/64- )
- 7 = Individual ordered to active duty for a period not equal to an even number of years (7/1/80- )
- 8 = Eight-year term of enlistment ( applicable to Air Reserve Forces only) (3/1/66- )
- 9 = Unknown (10/1/64- )

***COLUMN 116—MAJOR COMMAND AREA (ECAREA)***

(Unrecoded from AGL or ARL file)

Identifies individual as being in the continental United States, overseas, or a combination thereof.

**Code:**

- 0 = Not applicable (6/1/65- )
- 1 = CONUS (11/1/64- )
- 2 = Overseas (11/1/64- )
- 3 = CONUS/oversea area (leave area only) (6/1/65- )
- 9 = Unknown (6/1/65- )

***COLUMNS 117-122—CONTROL AFSC (ECAFSC)***

(Unrecoded from AGL or ARL file)

The AFSC assigned to the individual by MPC to effect airman assignments and to assist in the identification and control of training requirements. (It is also used to determine the individual's eligibility for a bonus.) The Control AFSC is usually the same as the Duty AFSC. Differences are mainly caused by the requirement that the skill level in the Control AFSC be tied to the airman's grade. The Control AFSC is the focus of many of the activities in the Air Force's personnel assignment, requisition, and training system.

Codes: See Air Force's FIDO file, code AFSC-AMN-DC

*COLUMNS 123-126—HRL EMITTED-AS-OF DATE (EHRL)*

(Unrecoded from AGL file; Blank on ARL file)

The month and year in which HRL received the transaction from MPC. (MPC sends transactions to HRL monthly. HRL updates the AGL quarterly.)

This field is blank on the AGL before October 1971, for airmen who enlisted before January 1, 1956, and for transactions after FY80.

Code:

Cols. 123-124: YR

Cols. 125-126: MO

## V. SNAPSHOTS

The snapshot of the airman's status on a specific date is one of the two constituent parts of an annual segment (the other part is the set of transactions in the year following the snapshot). The snapshot consists of data on the airman that come from the DMDC Active Duty Master files. The snapshot provides information on the airman's status on June 30. The column numbers given for the year-level variables are the columns that the variables occupy within each annual segment (not within the airman's EAGL record as a whole). If there is no record for the individual in some year's DMDC Master file, the SYEAR variable is assigned the appropriate value, and the remainder of the snapshot is left blank.

### *COLUMNS 1-2—YEAR OF THIS ANNUAL SEGMENT (SYEAR)*

Indicates the calendar year of the DMDC Master file from which the DMDC data in the annual segment have been drawn. Also used to name the annual segment (as in "the annual segment for 1973").

Code:

ab = the 19ab DMDC Master file was the source for  
the year-level variables in this annual segment.

### *COLUMNS 3-5—TOTAL ACTIVE FEDERAL MILITARY SERVICE (STAFMS)*

The number of months of active military service accumulated by the individual up to the time of the snapshot.

### *COLUMNS 6-8—DOD PRIMARY OCCUPATION GROUP (SPOCGP)*

(Recoded from the Primary AFSC (see Cols. 21-27).) The codes, which are listed in DoD Publication 1312.1-M (*Occupational Conversion Manual*, 1980), translate individual service occupational designations into a common coding and occupational scheme in order to facilitate cross-service occupational comparisons.)

The Primary Occupation Group code identifies the occupation for which the individual has been trained, or the skill in which the individual is most qualified as of the date of the snapshot.

Code:

- 000 = Unknown
- 012 = Small Arms Specialist
- 050 = Air Crew
- 062 = Small Boat Operator
- 070 = Security Guard
- 10 Radio/Radar
  - 100 = Radio/Radar, General
  - 101 = Communications Radio
  - 102 = Navigation, Communications and Countermeasure,  
not elsewhere classified (N.E.C.)
  - 103 = Air Traffic Control Radar
  - 104 = Surveillance/Target Acquisition and Tracking Radar
- 11 Fire Control Electronic Systems (Non-Missile)
  - 111 = Bomb-Navigation Systems Mechanic
  - 112 = Defensive Fire Control Systems Mechanic
- 12 Missile Guidance, Control, and Checkout
  - 121 = Missile Guidance and Control
  - 122 = Missile Checkout Equipment, Test Equipment, and  
Calibration
  - 140 = Nuclear Weapons Equipment Repair
  - 150 = ADP Computers
  - 160 = Teletype and Cryptographic Equipment
- 19 Electronic Instruments
  - 191 = Training Devices
  - 198 = Electronic Instruments, N.E.C.
- 20 Radio and Radio Code
  - 201 = Radio Code
  - 202 = Non-Code Radio



22 Radar and Air Traffic Control

221 = Radar

222 = Air Traffic Control

23 Signal Intelligence/Electronic Warfare

231 = Intercept (Code and Non-code)

232 = Analysis

233 = Electronic Countermeasures

24 Intelligence

241 = Language Interrogation/Interpretation

242 = Image Interpretation

243 = Operational Intelligence

244 = Counterintelligence

2x Communications and Intelligence Specialists, Other

250 = Combat Operations Control

260 = Communications Center Operations

30 Medical Care

300 = Medical Care and Treatment, General

301 = Operating Room

302 = Mental Care

303 = Therapy

304 = Orthopedic

31 Technical Medical Services

311 = Laboratory

312 = Pharmacy

313 = Radiology

32 Related Medical Services

321 = Food Inspection and Veterinary Services

322 = Preventive Medical Services

33 Dental Care

330 = Dental Care, General

331 = Dental Laboratory

- 400 = Photography
- 41 Mapping, Surveying, Drafting, and Illustrating
  - 411 = Mapping
  - 412 = Surveying
  - 413 = Drafting
  - 414 = Illustrating
- 420 = Weather
- 431 = Explosive Ordnance Disposal
- 450 = Musician
- 49 Technical Specialists
  - 493 = Safety
  - 494 = Nuclear, Biological and Chemical Warfare Specialist
  - 495 = Firefighting and Damage Control
  - 496 = Other Technical Specialists and Assistants
- 50 Personnel
  - 500 = Personnel, General
  - 501 = Recruiting and Counseling
- 51 Administration
  - 510 = Administration, General
  - 511 = Stenography
  - 512 = Legal
  - 513 = Medical
  - 514 = Administration, Other
- 52 Clerical/Personnel
  - 521 = First Sergeants and Sergeants Major
- 53 Data Processing
  - 531 = Operator/Analyst
  - 532 = Programmer
- 54 Accounting, Finance, and Disbursing
  - 541 = Auditing and Accounting

- 542 = Disbursing
- 55 Other Functional Support
  - 551 = Supply Administration
  - 553 = Transportation
  - 554 = Postal
  - 556 = Flight Operations
  - 558 = Functional Analysis
- 56 Religious, Morale, and Welfare
  - 561 = Chaplains Assistant
  - 562 = Recreation and Welfare
  - 570 = Information and Education
- 60 Aircraft, and Aircraft Related
  - 600 = Aircraft, General
  - 601 = Aircraft Engines
  - 602 = Aircraft Accessories
  - 603 = Aircraft Structures
- 61 Automotive
  - 610 = Automotive, General
  - 612 = Construction Equipment
- 62 Wire Communications
  - 621 = Lineman
  - 622 = Central Office
  - 623 = Interior Communications
- 63 Missile, Mechanical and Electrical
  - 632 = Missile Mechanic
  - 633 = Missile Launch and Support Facilities
- 64 Armament and Munitions
  - 640 = Armament Maintenance, General
  - 641 = Small Arms Repair
  - 645 = Ammunition Repair
  - 646 = Aviation Ordnance

65 Shipboard Propulsion

652 = Auxiliaries

66 Power Generating Equipment

662 = Electric Power

670 = Precision Equipment, General

70 Metalworking

700 = Metalworking, General

701 = Welding

702 = Machinist

703 = Sheetmetal

704 = Metal Body Repair

71 Construction

710 = Construction, General

712 = Woodworking

713 = Construction Equipment Operation

72 Utilities

720 = Utilities, General

721 = Electrician

7x Other Craftsmen

740 = Lithography

750 = Industrial Gas and Fuel Production, General

760 = Fabric, Leather and Rubber

790 = Other Craftsman, General

80 Food Service

800 = Food Service, General

801 = Stewards & Enlisted Aides

811 = Motor Vehicle Operators

82 Material Receipt, Storage and Issue

821 = Missile Fuel and Petroleum

822 = Warehousing and Equipment Handling

823 = Sales Store

83 Law Enforcement

830 = Law Enforcement, General

831 = Corrections

832 = Investigations

860 = Forward Area Equipment Support, General

9x Non-Occupational

901 = Patient

902 = Prisoner

911 = Cadet or other officer candidate

920 = Undesignated occupation

950 = Not occupationally qualified

*COLUMNS 9-11—DOD DUTY OCCUPATION GROUP (SDOCGR)*

(Recoded from the Duty AFSC; see snapshot Cols. 52-58)

The occupation corresponding to the authorized position to which the individual was officially assigned on the date of the snapshot. (This generally is the same as the occupation in which the individual was performing service.)

Codes: Same as for DOD PRIMARY OCCUPATION GROUP (see snapshot Cols. 6-8)

*COLUMNS 12-13—EDUCATION (SEDUC)*

(From DMDC's Active Duty Master files)

The highest year of education attained by the service member by the date of the snapshot, as reported by the service.

Code:

00 = Unknown

01 = 1-7 years of elementary school completed

02 = 8 years of elementary school completed

03 = 1 year of high school completed

04 = 2 years of high school completed

05 = 3 or 4 years of high school completed with no diploma or no G.E.D.

06 = High school graduate, diploma or G.E.D.  
07 = 1 year of college completed  
08 = 2 years of college completed  
09 = 3 or 4 years of college completed with no diploma  
10 = College graduate  
11 = Masters degree received or other professional  
degrees beyond college other than a doctorate  
12 = Doctorate degree received

*COLUMN 14—PAY GRADE (SGRADE)*

(From DMDC Active Duty Master files)

Member's pay grade on the date of the snapshot.

Code:

0 = Enlisted, unknown  
1 = E-1  
2 = E-2  
3 = E-3  
4 = E-4  
5 = E-5  
6 = E-6  
7 = E-7  
8 = E-8  
9 = E-9

*COLUMNS 15-17—HOME OF RECORD (SHOME)*

(From DMDC Active Duty Master files)

Service member's home of record at the time of his latest enlistment/reenlistment.

Code:

000 = Unknown  
001 = Alabama  
002 = Alaska  
003 = American Samoa  
004 = Arizona  
005 = Arkansas

006 = California  
007 = Canal Zone  
008 = Colorado  
009 = Connecticut  
010 = Delaware  
  
011 = District of Columbia  
012 = Florida  
013 = Georgia  
014 = Guam  
015 = Hawaii  
  
016 = Idaho  
017 = Illinois  
018 = Indiana  
019 = Iowa  
020 = Kansas  
  
021 = Kentucky  
022 = Louisiana  
023 = Maine  
024 = Maryland  
025 = Massachusetts  
  
026 = Michigan  
027 = Minnesota  
028 = Mississippi  
029 = Missouri  
030 = Montana  
  
031 = Nebraska  
032 = Nevada  
033 = New Hampshire

034 = New Jersey

035 = New Mexico

036 = New York

037 = North Carolina

038 = North Dakota

039 = Ohio

040 = Oklahoma

041 = Oregon

042 = Pennsylvania

043 = Puerto Rico

044 = Rhode Island

045 = South Carolina

046 = South Dakota

047 = Tennessee

048 = Texas

049 = Utah

050 = Vermont

051 = Virginia

052 = Virgin Islands

053 = Washington

054 = West Virginia

055 = Wisconsin

056 = Wyoming

057 = Afghanistan

058 = Albania

059 = Algeria

060 = Angola



061 = Argentina  
062 = Australia  
063 = Austria  
064 = Bahama Islands  
065 = Belgium  
  
066 = Bermuda  
067 = Bolivia  
068 = Botswana  
069 = Brazil  
070 = British Honduras  
  
071 = British Solomon Islands  
072 = British Virgin Islands  
073 = Bulgaria  
074 = Burma  
075 = Burundi  
  
076 = Cambodia  
077 = Cameroon  
078 = Canada  
079 = Cape Verde Island  
080 = Central African Republic  
  
081 = Ceylon  
082 = Chad  
083 = Chile  
084 = China, Communist  
085 = China, Peoples Republic of  
  
086 = Columbia  
087 = Comoro Is.  
088 = Congo (Brazzaville)

089 = Costa Rica

090 = Cuba

091 = Cyprus

092 = Czechoslovakia

093 = Dahomey

094 = Denmark

095 = Dominican Republic

096 = Ecuador

097 = Egypt

098 = El Salvador

099 = Equatorial Guinea

100 = Ethiopia

101 = Fiji

102 = Finland

103 = France

104 = French Guiana

105 = Gabon

106 = Gambia

107 = German Federal Republic

108 = Germany, Soviet Zone of

109 = Ghana

110 = Gibraltar

111 = Greece

112 = Greenland

113 = Guadeloupe

114 = Guatemala

115 = Guinea

116 = Guyana

117 = Haiti

118 = Honduras

119 = Hong Kong

120 = Hungary

121 = Iceland

122 = India

123 = Indonesia

124 = Iran

125 = Iraq

126 = Ireland

127 = Israel

128 = Italy

129 = Ivory Coast

130 = Jamaica

131 = Japan

132 = Jordan

133 = Kenya

134 = Korea, North

135 = Korea, Republic of

136 = Kuwait

137 = Laos

138 = Lebanon

139 = Lesotho

140 = Liberia

141 = Libya

142 = Macao

143 = Madagascar

144 = Malawi  
145 = Malaysia

146 = Maldives  
147 = Mali  
148 = Malta  
149 = Mauritania  
150 = Mauritius

151 = Mexico  
152 = Mongolia  
153 = Morocco  
154 = Mozambique  
155 = Nepal

156 = Netherlands  
157 = New Zealand  
158 = Nicaragua  
159 = Niger  
160 = Nigeria

161 = Norway  
162 = Oman  
163 = Pakistan  
164 = Panama  
165 = Papua, New Guinea

166 = Paraguay  
167 = Peru  
168 = Philippines  
169 = Poland  
170 = Portugal

171 = Portuguese Guinea

172 = Portuguese Timor

173 = Reunion

174 = Romania

175 = Rwanda

176 = Ryukyu Islands, Southern

177 = Sao Tome E Principe

178 = Saudi Arabia

179 = Senegal

180 = Seychelles

181 = Sierra Leone

182 = Sikkim

183 = Singapore

184 = Somalia

185 = South Africa

186 = South-West Africa

187 = Southern Rhodesia

188 = Soviet Union

189 = Spain

190 = Spanish territory of Northern Mexico

191 = Sudan

192 = Surinam

193 = Swaziland

194 = Sweden

195 = Switzerland

196 = Syria

197 = Tanzania

198 = Thailand

199 = Togo  
200 = Trinidad and Tobago  
  
201 = Tunisia  
202 = Turkey  
203 = Uganda  
204 = United Kingdom  
205 = United States  
  
206 = United States, Misc., Carribbean Is.  
207 = United States, Misc., Pacific Is.  
208 = Upper Volta  
209 = Uruguay  
210 = Venezuela  
  
211 = Vietnam, North  
212 = Vietnam, Republic of  
213 = Yemen, Arab Republic  
214 = Yemen, Peoples Republic  
215 = Yugoslavia  
  
216 = Zaire, Republic of  
217 = Zambia  
218 = European Principalities  
219 = Lesser Antilles, not elsewhere specified  
220 = Arab Emirates, not elsewhere specified  
  
221 = South Pacific Islands, n.e.s.  
233 = Illegal code in Service data (Recoded 233 by DMDC)

***COLUMN 18—VIETNAM DUTY CODE (SVIETN)***

(From DMDC Active Duty Master files)

Reflects whether member served in Vietnam (in-country). This code is included in snapshots from June 1971 through June 1978. The field is blank in snapshots from June 1979 through June 1986.

Code:

- 0 = Not in Air Force during Vietnam War (8/64-1/73)
- 1 = Yes, Duty in Vietnam during War
- 2 = No Duty in Vietnam during War

*COLUMN 19—MARITAL STATUS (SMARR)*

(From DMDC Active Duty Master files)

Code:

- 0 = Unknown
- 1 = Single, Divorced, Interlocutory Decree, Legally Separated, Widowed, or Marriage Annulled
- 2 = Married

*COLUMN 20—NUMBER OF DEPENDENTS (SDEPN)*

(From DMDC Active Duty Master files)

Code:

- 0 = Unknown or greater than 15 dependents
- 1 = No dependents
- 2 = 1 dependent
- 3 = 2 dependents
- 4 = 3 dependents
- 5 = 4 dependents
- 6 = 5 dependents
- 7 = 6 dependents
- 8 = 7 dependents
- 9 = 8-15 dependents

*COLUMNS 21-27—PRIMARY AFSC (SPAFSC)*

(From DMDC Active Duty Master files)

The awarded AFSC in which the individual is most qualified to perform duty. (It reflects the highest skill level of all skills held by the airman.) The Primary AFSC is usually the same as the Control AFSC. Differences are caused by mismatches between the inventory of trained personnel and the set of funded authorizations.

Code : See Air Force's FIDO File, code AFSC-AMN-DC.

Blank if unknown.

*COLUMNS 28-31—ETS (SETSYR; SETSMO)*

(From DMDC Active Duty Master files)

Date at which the member will fulfill his obligated active duty.

Code:

Cols. 28-29: YR

Cols. 30-31: MO

*COLUMNS 32-35—DOS (SDOSYR; SDOSMO)*

(From DMDC Active Duty Master files)

Member's date of separation. Edit accepts all records whose date of separation is not more than one year before the as-of-date of the file. Records showing dates more than one year previous to the as-of-date, or invalid dates, are assigned the code 0000.

Code:

Cols. 32-33: YR

Cols. 34-35: MO

*COLUMNS 36-39—DATE OF LAST ENLISTMENT (SDOLEY; SDOLEM)*

(From DMDC Active Duty Master files)

Shows date at which member started his latest tour of duty. 0000 if unknown.

Code:

Cols. 36-37: YR

Cols. 38-39: MO

*COLUMNS 40-42—TIME IN GRADE (STIG)*

(From DMDC Active Duty Master files)

Shows number of months member had served in his current grade (SGRADE) at the time of the snapshot.

Code:

000-240 = Time in Grade in Months



*COLUMN 43—BONUS MULTIPLIER (SBMULT)*

(From DMDC Active Duty files)

Code:

0-4 = The VRB Program (1/1/66-6/1/74)

0-6 = The Selective Reenlistment Bonus Program  
(7/1/75- )

- The bonus is calculated by multiplying the code  $\times$  one month's basic pay  $\times$  number of years in the reenlistment contract.
- The data in this field are not very accurate. A supplementary data file on bonuses has been built and is used by the EFMP to calculate the bonus an airman received.

*COLUMN 44—PROFICIENCY PAY LEVEL (SPROPY)*

(From DMDC Active Duty Master files)

Eliminated for almost all specialties 6/30/74. Only medical, dental, and selected special duty specialties still receive proficiency pay. The data in this field are not very accurate. A supplementary data file on proficiency pay has been built and is used by the EFMP to calculate the proficiency pay an airman received.

Code: 0-9

*COLUMNS 45-50—UNIT IDENTIFIER CODE (SUIC)*

(From DMDC Active Duty Master files)

This is a six-character DMDC code that identifies the actual unit to which the individual is assigned. The first character identifies the Service branch ("F" for Air Force). The last character is zero for Air Force units. The middle four characters (for Air Force units) are the Air Force's Personnel Accounting Symbol Number (PAS Number). PAS Numbers begin with the character "F." (Thus, UICs for Air Force units begin with "FF" and end with "0.") This field is blank before 1974 and if the individual's PAS Number is unknown or classified. (The UIC has been included on the DMDC Active Duty Master files only since 1974.)

*COLUMNS 46-49—PERSONNEL ACCOUNTING SYMBOL NUMBER (SPASNR)*

(From DMDC Active Duty Master files)

Identifies the actual unit to which the individual is assigned (see SUIC, columns 45-50). For Air Force units, the first character is an "F." Columns 47-49 contain a 3-character unit identifier. (We do not have these codes on our copy of the FIDO file.) Blank before 1974 or if the PASNR is unknown or classified.

*COLUMN 51—SPANISH SURNAME (SSPAN)*

(From DMDC Active Duty Master files)

This flag is set based on individual's name having matched a name on the MARDAC Spanish-surname tape.

Code:

0 = Individual does not have a Spanish surname  
1 = Individual has a Spanish surname

*COLUMNS 52-58—DUTY AFSC (SDAFSC)*

(From DMDC Active Duty Master files)

The AFSC corresponding to the authorized position to which the individual was assigned on the date of the snapshot. (This generally corresponds to the job the individual was performing at the time.) The Duty AFSC is assigned by the MAJCOM. It is usually the same as the Control AFSC, but sometimes has a higher or lower skill level. The Duty AFSC was not recorded in the DMDC Master files before 1980.

Codes: See Air Force's FIDO File, code AFSC-AMN-DC.

Blank if unknown or before 1980.

*COLUMNS 59-60—AFQT Percentile (SAFQTP)*

(From DMDC Active Duty Master files)

The percentile score achieved by the individual on the Armed Forces Qualification Test (AFQT), or on another entry test that has been converted to an AFQT percentile equivalent.

Code:

00 = Unknown, or 01-09 percentile  
10-99 = Valid range of codes

*COLUMNS 61-62—TYPE OF FIRST TRANSACTION (SCTRN1)*

(Recoded from TTRNID of the first transaction in the annual segment)

Indicates whether there are any transactions recorded in the annual segment, and, if so, the category within which the first transaction fits. The categories are those that were defined by Resources Research Corporation (RRC) for use in their retention studies.

Code:

blank = There are no transactions in the annual segment  
11 = Reenlistment,  $\leq 3$  months PETS  
12 = Reenlistment,  $> 3$  months PETS  
13 = Reenlistment, PETS  
14 = Reenlistment  
15 = Reenlistment, PETS (Reservist)  
16 = Reenlistment, ETS (Reservist)  
17 = Reenlistment,  $\leq 3$  months after DOS  
18 = Separation to reenlist  
21 = Extension  
22 = Extension,  $\geq 24$  months  
23 = Extension,  $< 24$  months  
31 = Retirement, forced  
32 = Retirement, voluntary  
33 = Retirement, mandatory  
34 = Retirement, second time from active duty  
35 = Retirement, disability  
41 = Gain, from civilian  
42 = Gain, from Reserves  
43 = Gain, from retirement  
44 = Gain, accession  
45 = Gain, to enter OCS, Academy, etc.  
46 = Gain, failed OCS, Academy, etc.  
47 = Gain, miscellaneous  
48 = Gain, correcting an error  
49 = Loss, correcting an error  
51 = Loss, to OCS, Academy, AFROTC, etc.

- 52 = Transfer, Reserves to Reserves
- 53 = Gain, transfer Reserves to Active
- 54 = Transfer, Reserves to another branch of service
- 55 = Loss, transfer active to Reserves
- 56 = Loss, transfer active to another branch of service
- 57 = Loss, transfer active to Reserves (demobilization)
- 58 = Transfer, retirement to Reserves
- 60 = Loss, death
- 70 = Loss, quit (voluntary separation)
- 80 = Loss, fired (involuntary separation).

*COLUMNS 63-64—TYPE OF SECOND TRANSACTION (SCTR2)*

(Recoded from TTRNID of the second transaction in the annual segment)

Indicates whether there is a second transaction recorded in the annual segment and, if so, the category within which it fits. The categories are those that were defined by Resources Research Corporation (RRC) for use in their retention studies.

Codes: Same as codes for SCTR1 (Cols. 61-62)

*COLUMNS 65-66—TYPE OF THIRD TRANSACTION (SCTR3)*

(Recoded from TTRNID of the third transaction in the annual segment)

Indicates whether there is a third transaction recorded in the annual segment and, if so, the category within which it fits. The categories are those that were defined by Resources Research Corporation (RRC) for use in their retention studies.

Codes: Same as codes for SCTR1 (Cols. 61-62)

## VI. TRANSACTIONS

Each annual segment in the EAGL file contains space for data on three transactions. In an annual segment are some or all of the airman's transactions in the 12 months following the date of the DMDC snapshot that appears in the first part of the annual segment. If the airman had three or fewer transactions during those 12 months, data on all are recorded. If the airman had more than three transactions during the period, data on only three are recorded in the annual segment. The rules for choosing the three transactions to include are described in Sec. III (see footnote 1, p. 14).

Note that the column numbers given for the transaction-level variables are the columns that the variables occupy within each transaction block (not within the airman's EAGL record as a whole and not within the annual segment). The descriptions of the transaction-level variables and their codes are the same as those for the early transaction. These were given in Sec. IV and are not repeated in this section. References to the appropriate early-transaction variables are given below.

### *COLUMNS 1-4—EFFECTIVE DATE OF CHANGE FOR STRENGTH ACCOUNTABILITY (TEDCSA)*

(Unrecoded from EDCSA on AGL or ARL file)

Description: See EEDCSA, Sec. IV, Cols. 98-101.

Code:

Cols 1-2: YR

Cols 3-4: MO

### *COLUMNS 5-7—TRANSACTION ID (TTRNID)*

(Unrecoded from AGL or ARL file)

Description and Codes: See ETRNID, Sec. IV, Cols. 102-104.

### *COLUMNS 8-9—GRADE (TGRADE)*

(Unrecoded from AGL or ARL file)

Codes: See EGRADE, Sec. IV, Cols. 105-106.

### *COLUMNS 10-13—DATE OF SEPARATION (TDOS)*

(Unrecoded from AGL or ARL file)

Individual's date of separation. 9999 if unknown.

Code:

10-11: YR

12-13: MO

*COLUMN 14—CHARACTER OF DISCHARGE (TCHAR)*

(Unrecoded from AGL or ARL file)

Codes: See ECHAR, Sec. IV, Col. 111.

*COLUMNS 15-16—REENLISTMENT ELIGIBILITY (TELIG)*

(Unrecoded from AGL or ARL file)

Codes: See EELIG, Sec. IV, Cols. 112-113.

*COLUMN 17—CATEGORY OF ENLISTMENT (TECAT)*

(Unrecoded from AGL or ARL file)

Codes: See EECAT, Sec. IV, Column 114.

*COLUMN 18—TERM OF ENLISTMENT (TTOE)*

(Unrecoded from AGL or ARL file)

The number of years for which an individual voluntarily enters into a USAF component.

Codes: See ETOE, Sec. IV, Col. 115.

*COLUMN 19—MAJOR COMMAND AREA (TCAREA)* (Unrecoded from AGL or ARL file)

Identifies individual as being in the continental United States, overseas, or a combination thereof.

Code:

0 = Not applicable (6/1/65- )

1 = CONUS (11/1/64- )

2 = Overseas (11/1/64- )

3 = CONUS/Overseas Area (Leave area only)

9 = Unknown (6/1/65- )

*COLUMNS 20-25—CONTROL AFSC (TCAFSC)*

(Unrecoded from AGL or ARL file)

Description: See ECAFSC, Sec. IV, Cols. 117-122.

Codes: See Air Force's FIDO file, code AFSC-AMN-DC

*COLUMNS 26-29—HRL EMITTED-AS-OF DATE (THRL)*

(Unrecoded from AGL or ARL file)

The month and year in which HRL received the transaction from MPC. Blank before October 1971, for airmen who enlisted before January 1, 1956, and for transactions after FY 80.

Code:

Cols. 26-27: YR

Cols. 28-29: MO